

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/684,658	10/14/2003	Pierre French	. 27049-5	3224	
75	590 04/06/2005	EXAMINER			
Woodard, Em	hardt, Moriarty, McNet	HANAN, DEVIN J			
Bank One Cent	er/Tower	·			
Suite 3700		ART UNIT	PAPER NUMBER		
111 Monument	Circle	3745	•		
Indianapolis, IN 46204-5137			DATE MAILED: 04/06/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application	Application No. Applicant(s)					
		10/684,65	8	FRENCH, PIERRE				
		Examiner		Art Unit				
		Devin Han		3745				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1)	Responsive to communication(s) filed on	·						
2a) <u></u> ☐	This action is FINAL . 2b)⊠	This action is no	on-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims								
5)⊠ 6)⊠ 7)⊠	4) ⊠ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ⊠ Claim(s) 18 and 20 is/are allowed. 6) ⊠ Claim(s) 1-17,19 and 21-22 is/are rejected. 7) ⊠ Claim(s) is/are objected to.							
Applicati	ion Papers							
9) ☐ The specification is objected to by the Examiner.								
10)⊠	10)⊠ The drawing(s) filed on <u>1/26/2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority (ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
Attachmen	t(s)		·					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
3) 🛛 Infori	e of Draftsperson's Patent Drawing Review (PTO-944 mation Disclosure Statement(s) (PTO-1449 or PTO/S r No(s)/Mail Date <u>11/25/2003</u> .		Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate atent Application (PTO-	152)			

Application/Control Number: 10/684,658

Art Unit: 3745

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 3-7, 11-12, 16-17, 19 and 21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The use of "the or each wall surface" is ambiguous in claims 3-7, 11-12, 16-17, 19 and 21 because "each wall surface" can still refer to one wall surface which is already covered by the word "the". Correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-5, 7 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over D.J. Waldman (U.S. Patent 3,391,859) in view of Takahasi (U.S. Patent 6,371,722).

Waldman discloses a compressor wheel (17) mounted for rotation within a compressor housing (12), the compressor housing having an annular outlet passage

Art Unit: 3745

(21) surrounding the compressor wheel and defined between opposing annular wall surfaces, wherein a portion of at least one of said wall surfaces is resilient such that operational pressure changes within said outlet passage causes the resilient wall surface portion to move.

Regarding claim 3, Waldman discloses an annular resilient portion (col 2, line 33).

Regarding claim 4, Waldman discloses an annular wall surface that is substantially planar over the radial dimension and the annular wall extends over a major portion if the radial dimension of the respective wall.

Regarding claim 5, Waldman discloses a wall surface (24) inset into a recess defined in a wall of the housing (12).

Regarding claim 7, Waldman discloses the resilient member comprises a resilient diaphragm.

Regarding claim 16, Waldman discloses the annular wall surface is substantially planar (24) over the radial dimension, and the surface portion of the annular wall surface extends over a major portion of the radial dimension (24) and the portion of the wall surface is inset into a recess in a wall of the housing.

Waldman does not teach that the wall surface is flexible.

However Takahashi does teach of a flexible wall surface for the purpose of better performance, even during thermal deformation (col. 4 lines 30-51).

Since Takahashi and Waldman are in the same field of endeavor, the purpose the material of Takahashi would have been recognized in the pertinent art of Waldman. Art Unit: 3745

It would have been obvious at the time the invention was made to one of ordinary skill in the art to in to replace the plate 24 and bellows of Waldman with the gasket 25 of Takahashi in order to build a simplified resiliently flexible wall surface of one consistent material in order to improve performance during thermal deformation (col. 4 lines 30-51).

Prior Art

The patent to Liu (U.S. Patent 6,601,672) is cited to show the teachings of honeycomb wall surfaces that are for attenuating noise.

Allowable Subject Matter

Claims 2 and 22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 18 and 20 are allowed.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devin Hanan whose telephone number is 571-272-6089. The examiner can normally be reached on Monday through Friday.

Application/Control Number: 10/684,658

Art Unit: 3745

Page 5

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Look can be reached on 571-272-4820. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Devin Hanan Patent Examiner Art Unit 3745

EDWARD K. LOOK
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

4/4/05